



PATENT

ATTORNEY DOCKET NO.: SCF-53-CON

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | |
|---------------------------------|---|----------------------------|
| In re Application of: |) | |
| Alonzo W. Beasley, Jr. |) | Examiner: Singh, Arti R. |
| |) | |
| Serial No.: 10/684,639 |) | Art Unit: 1771 |
| |) | |
| Filed: October 14, 2003 |) | Deposit Acct. No.: 04-1403 |
| |) | |
| Title: Motor Vehicle Airbag and |) | Client ID: 22827 |
| Fabric For Use in Same |) | |

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

DECLARATION UNDER 37 CFR 1.131

Dear Commissioner:

I, Alonzo W. Beasley, Jr., do hereby declare that:

1. This application was filed on October 14, 2003, but claims the benefit of Application Serial No. 09/558,766, filed April 26, 2000.
2. I have been advised that all claims of the application were rejected as being unpatentable over the disclosure of U.S. Patent No. 6,455,449 to Veiga et al. issued on September 24, 2002, and filed on September 3, 1999.
3. The present invention resides in the discovery that urethane-coated airbag fabrics may include a base fabric made from finer denier yarns of alternating deniers which produces a crest and trough pattern on the surface that enhances urethane adhesion.

4. As supported by the factual evidence submitted herewith, the claimed invention was conceived and, on information and belief, was reduced to practice prior to September 3, 1999.

5. The originals of Exhibits A through C discussed hereinafter in detail were all prepared prior to September 3, 1999. Actual dates and prospective customer name have been deleted.

6. As evidenced by Exhibit A, a base fabric of 315d warp and alternating fill of 315d and 210d denier was prepared. This fabric was designated style 4934. The first two pages of Exhibit A make up the request from the inventor for a sample of this fabric. Note that the "enduse" of the fabric is indicated to be "airbag". The third page of Exhibit A is a "Sample Specification" for this fabric. The fourth page is a "Warping, Processing, Weaving Order and Headend Ticket" (stamped "Air Bag") for this fabric. After the base fabric was made, it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit A.

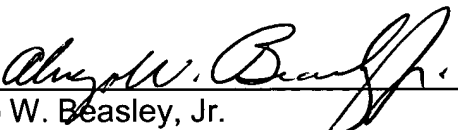
7. Exhibit B indicates that another sample of style 4934 was prepared. This base fabric also had 315d warp and alternating fill of 315d and 210d denier. The first page of Exhibit B is a "Sample Specification" for this fabric. The third page is a "Warping, Processing, Weaving Order and Headend Ticket" (stamped "Air Bag") for this fabric. After the base fabric was made, it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit B.

8. As evidenced by Exhibit C, a base fabric of 420d warp and alternating fill of 420d and 315d denier was prepared. This fabric, designated style 4951, was requested by the document making up the first two pages of Exhibit C. After the base fabric was made,

it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit C.

9. A style 4934 base fabric was sent to the prospective customer (a coater), whereupon a urethane coating was applied. Satisfactory adhesion levels were reported.

10. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.



Alonzo W. Beasley, Jr.

Date: 6/09/06

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Rush

PROD. REQ. & COST FORM

TO: FRANCISCO BEDOYA

DATE

I. MARKETING

CUSTOMER: CUST. S/# C/R# 10-387

SCFTI S/#: 4934-02 WEAVE: Plain ENDUSE: Aib. LEVEL 4

| | | | |
|--------------------------|------------------|----------------|----|
| GR. (MIN./NOM.) | FIN. (MIN./NOM.) | YES | NO |
| ENDS/IN: 55 | 60 | WARP SIZE OK | X |
| PICKS/IN: 14 60 Sec Back | 63-65 | SPUN YARN TINT | |
| WIDTH: 75-76 | 69.5-70.5 | HI. TEN REQD | |

WARP: 315 / 144 / T-447 (AK20) OLD/NEW

FILL: 315 / 144 / T-447 (AK20) (Use Both) (pick + pick) 283 OLD/NEW

SCFTI PROCESS: 210/68/R-20 DuPont Nylon

| | | |
|--------------------|------------------|----------|
| GREIGE | CUT LENGTH RANGE | 500 yds. |
| HEATSET IN THE GR. | MIN PC. LENGTH | 200 |
| SCOUR & HEATSET | SPLICES ALLOWED | OK |
| APPLY & FINISH | PACKAGING | to soil |

DESCRIBE FINISH: FINISH CODE: 9036

CFM RANGE: NA CUST. SPEC # TDD. DATED: COPY OF CUST. SPEC ATTACHED (TEST REQ. Y/N) (CERT REQ Y/N) DEPT#:

II. TECHNICAL

TYPE LOOM: Dornier MULTIPLE PICKS - YES/NO EQUIVALENT PICKS: N/A YARDS PER BEAM: N/A (WARP IN PLANT & NEW YARNS ONLY)

CONST. IN LOOM: REED WIDTH: 81.25 SLEY: S20 OFF LM PICKS: 640

WARP: 315 / 144 / T-447 AK20

FILLING: 315 / 144 / T-447 AK20 pick and pick
WARP YDS/LB: 14.150 FILLING YDS/LB: 14.150 = 315 den / 21250 = 210 den

EST. WARP CONTRACTION: 8% REMARKS: sample for -

SIGNATURE: DATE:

PROCESSES REQUIRED: (CIRCLE AS APPLICABLE)

| | | | | |
|-------------------|---------|---------------------|---------|-----------|
| PREPARATION | WEAVING | FINISHING | FINAL | TESTING |
| WINDING | DORNIER | BATCH | SLIT | INTERNAL |
| TWISTING (IN/OUT) | SULZER | SCOUR | INSPECT | CUST. LOT |
| WARPING (IN/OUT) | | CAN DRY | PACK | NONSTD. |
| (BLOCK/TRANS.) | | CONTACT HT SET SHIP | | PPAP |
| BEAMING/SLASHING | | CALENDER/TENTER | | ANNUAL |
| | | | | QUAL. |

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III. ENGINEERING
LOOMS/WEAVER: _____ OTHER: _____

IV. COST DEPARTMENT

DATE FWDED: _____

YDS/LOOM
120 HRS. _____

TARGET CONTRIBUTION
LOOM/WK _____ YD _____

FAB. WT. _____

OZ./SQ. YD. _____

COST: _____

VAR./YD: _____

FX/YD: _____

B/E/YD: _____

MIN. YD: _____

TAR. YD: _____

YARN PRICE: _____

WARP: _____

FILL: _____

SPECIAL INSTRUCTIONS: _____

DISCLAIMERS/COMMENTS: _____

A.

630 D.

has adhesion problem with low tension before

B. Run this as Pattern 02.

C. Pick insertion should BE 1/1 and 1/1 of two filling
yarns. See front.

D. Low Tension on warp yarn.

E. This is final ONLY

SUBMITTED BY _____

DATE: _____

APPROVED BY MARKETING MGR. _____

DATE: _____

APPROVED BY DIR. TECH. SVCS _____

DATE: _____

REJ. (APPR) TECH. SERV. MGR. _____

DATE: _____

APPROVED BY MFG. REF. COMM. _____

DATE: _____

FORWARD TO: _____

OR _____

CC: _____

J. ANDERSON

J. UNDERWOOD

S. DUERK

D. HARVELL

AFETY COMPONENTS FABRIC
TECHNOLOGICAL INC.STYLE M ER LISTING
Sample Specification

PAGE:

Style: W4934-0002-9026 Level: IV

Description: 315,210 60 x 64 U/M: YD

Low Warp tension

Fabric: 8 harness and 6 banks of drop wires, 71% air space reed
Weave: Dupont t-6.6 nylon

Plain PICK AND PICK WITH 2 FILLING YARNS

Status:

Department no: ACT

Product code: 10

Loom type: 89 Airbag - driver: uncoated

Primary customer: Dornier general

Requested by: / VARIOUS

L. BEASLEY

Face: Either

Weave cut (yds): 500 Weave picks/inch: 64.00

Edges: Heat slit at loom

Type size: BF-44C-4% SOLIDS IN SIZE BOX, 1% STRETCH ON SLASHING

Other: 1 end 420/68 dk.blue nylon 24 ends from left side at slasher

Reed width: 81.23

Dents/inch: 26.000

Rnds/dent: 2

Sley count: 52.000

No. ends: 4,224

Warp yarn code: RMNL1538 Supplier: ACORDIS INDUSTRIAL FIBERS

Description: 315/144 T-447 HRT-8 Acordis Scottsboro Nylon

Twist: Airbag Beams

Merge: None

Fill yarn code: RMNL1539 Supplier: ACORDIS INDUSTRIAL FIBERS

Description: 315/144 T-447 HRT-8 Acordis Scottsboro Nylon

Twist: Airbag Tubes

Merge: None

Packaging: See final inspection instructions

Grading: See final inspection instructions

Purpose: nylon coating fabric (air bag)

Tube size: See final inspection instructions

Hold code: 02

Putup code: 11 Roll Goods

Tare wt:

CFM code:

| | | | Min | Est. Off Loom Max | Target | Min | Est. Finished Max | Target |
|------------------|-------|----------------|---------|----------------------|---------|---------|----------------------|---------|
| | | | | | | | | |
| Std wt (yds/lb): | 1.59 | Width (in): | 75.50 | 76.50 | 76.00 | 69.50 | 70.50 | 70.00 |
| Weight (lbs/yd): | 0.628 | Count (W x F): | 54 x 63 | 56 x 65 | 55 x 64 | 58 x 62 | 62 x 66 | 60 x 64 |
| Allow dev %: | 3.00 | Wt (oz/syd): | 4.71 | 4.71 | 4.71 | 4.93 | 4.93 | 4.93 |

Comments: As c/r #10-387 var. W4934-01

Current rev: 000

Revision date: 05/25/1999 By: TK

FILLING YARN #2

RMNL 1618 210/68 R20 T-729 TUBES FROM DUPONT

original

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1015 (12/97)

(QHS-102,103)

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WARPING ORDER

F-1017 11/98

(RE: QMS - 102)

SAFETY COMPONENTS FABRIC TECHNOLOGIES, INC. - DUNEAN PLANT - 80

WARPING, PROCESSING, WEAVING ORDER AND HEADEND TICKET

STYLE: W-4934 EXP.-2 TYPE CLOTH: NYLON COATING AIR BAGS DATE: _____

NO. REED DENT ENDS TOTAL
BEAMS: 1 SPREAD: 81.23" REED: 26.00 DENT: 2 DENTS: 2156" SLEY: 52.00 SHAFTS: 8

EST % TYPE DIST. BTWN
DRAW: STRAIGHT WEAVE: PLAIN CONT: 8% LOOM: DORNIER BM. HEAD: 81.75"
DEPT.: 10 BODY ENDS: 4224 SELV ENDS: 1 TOTAL ENDS: 4225
WEIGHT
SELVAGE: ** 1 END 420/68 DEN. DARK BLUE NYLON - HEAT SLIT AT LOOM PER YARD: .0001

FILLING A: 315/144/T-447 AKZO SCOTSBORO NYLON PICKS: 32 WT/YD: .1959
(14,150)

FILLING B: 210/68/R-20 DUPONT NYLON PICKS: 32 WT/YD: .1305
(21,250)
*INCLUDES 22 DENTS EACH SIDE FOR CATCH CORD,LENO,ETC.

FILLING C: _____ PICKS: _____ WT/YD: _____

WARP A: 315/144/T-447 AKZO SCOTSBORO NYLON NO. ENDS: 4224 WT/YD: .3245
NO TINT - NO CUT MARKS (14,150)

WARP B: ** ADDED AT SLASHER 24 ENDS FROM LEFT NO. ENDS: _____ WT/YD: _____
EDGE AT SLASHER

WARP C: _____ NO. ENDS: _____ WT/YD: _____

WARPING LAYOUT

MAY ALSO BE WARPED AS BELOW:

12 - BMS @ 0 352 0
SELV. BODY A SELV.

- BMS @ _____
SELV. BODY A SELV.

- BMS @ _____
SELV. BODY SELV.

- BMS @ _____
SELV. BODY SELV.

- BMS @ _____
SELV. BODY SELV.

- BMS @ _____
SELV. BODY SELV.

FOR HEADEND TICKET:

GREIGE EST. ACT.% GROUND OVERALL
WIDTH _____ WEIGHT _____ CONT _____ COUNT _____ COUNT: _____

ISSUED BY: FRANCISCO BEDOYA Francisco Bedoya DATE: _____

cc: BURTON, REESE, HALEY, HAVER, B.JAMES,D. ROBBINS, WEAVE ROOM, J. GLENN
D-10 R. DEATHERAGE (3), FRANCISCO BEDOYA (3) D-10

CERTIFICATE OF CONFORMANCE

PAGE 1 OF 2

MANUFACTURER: Safety Components Fabric Tech. Inc.
Duncan Plant
Greenville, SC

TEST CONDITIONS: 72°F / 65% R.H.

CUSTOMER ID:

MATERIAL: W4934-02-9026

LOT: 20699

TEST DATE:

SPECIFICATION: TED

| Piece No. Sample No. | 8661F | | | Specification Requirement | UNIT OF MEASURE | TEST PROCEDURES |
|--------------------------|-------|-------|-------|------------------------------|--------------------|--------------------|
| GRAB TENSILE WARP | 427 | 0 | 0 | Min: | Pounds | ASTM-D-5034 |
| FILLING | 389 | 0 | 0 | Min: | Pounds | ASTM-D-5034 |
| ELONGATION WARP | 42 | 0 | 0 | Min: Max: | Percent | ASTM-D-5034 |
| FILLING | 44 | 0 | 0 | Min: Max: | Percent | ASTM-D-5034 |
| TONGUE TEAR WARP | 27 | 0 | 0 | Min: | Pounds | ASTM-D-2261 |
| FILLING | 26 | 0 | 0 | Min: | Pounds | ASTM-D-2261 |
| TRAPEZOID TEAR WARP | 0 | 0 | 0 | Min: | Pounds | ASTM-D-4533 |
| FILLING | 0 | 0 | 0 | Min: | Pounds | ASTM-D-4533 |
| SHRINKAGE WARP | 1.56 | 0.00 | 0.00 | Max: | Percent | 1 HR @ 300 F |
| FILLING | 0.00 | 0.00 | 0.00 | Max: | Percent | 1 HR @ 300 F |
| FLAMMABILITY | 0.0 | 0.0 | 0.0 | Max: | IN/MIN | FMVSS-302 |
| BOW | | | | Max: | Percent | |
| BIAS | | | | Max: | Percent | |
| WEIGHT | 5.14 | 0.00 | 0.00 | Min: Max: | OZ/YD2 | ASTM-D-3776 |
| WIDTH | 70.0 | 0.0 | 0.0 | Min: Max: | INCHES | ASTM-D-3774 |
| ENDS | 59.4 | 0.0 | 0.0 | Min: Max: | EPI | ASTM-D-3775 |
| PICKS | 63.4 | 0.0 | 0.0 | Min: Max: | PPI | ASTM-D-3775 |
| BODY THICKNESS | .010 | 0.000 | 0.000 | Min: Max: | Inches | ASTM-D-1777 |
| DYNAMIC AIR PERM ADAP | | | | Min: Max: | cm/sec | T.B.D. |
| EXPONENT | | | | Min: Max: | | T.B.D. |

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P. 05/05

Material: W4934-02-9026

lot: 20699

Page 2 of 2

| Piece No. Sample No. | 8661T | | | Specification Requirement | UNIT OF MEASURE | TEST PROCEDURES |
|------------------------------|-------|-------|-------|------------------------------|--------------------|--------------------|
| MULLEN BURST NET | | | | Min: | PSI | ASTM-D-3786 |
| pH | 7.5 | | | Min: Max: | pH units | FTM 191 |
| EXTRACTABLES (%) | .2 | | | Max: | Percent | JPS 701 |
| DYE STAIN | 5 | | | Min: 4 | AATCC CROCK UNITS | JPS 701 |
| AIR PERMEABILITY | 0.00 | 0.00 | 0.00 | Min: Max: | CFM | ASTM-D-737 |
| CANTILEVER STIFFNESS WARP | 0.0 | 0.0 | 0.0 | Min: Max: | MG/CM2 | ASTM-D-4032 |
| FILL | 0.0 | 0.0 | 0.0 | Min: Max: | MG/CM2 | ASTM-D-4032 |
| CIRCULAR BEND WARP | .700 | 0.000 | 0.000 | Min: Max: | Pounds | ASTM 4032 |
| FILL | .700 | 0.000 | 0.000 | Min: Max: | Pounds | ASTM 4032 |

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT M. HOLCOMBE LAB DIRECTOR
(864) 240-2624

F-1065 (5/96)

[WI-2021]

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INFORMATION ONLY

FRTY COMPC NTS FABRIC
CHNOLOGIES, INC.

STYLE W/ IN LISTING
Sample Specification

DATE:

Style: W4934-0003-9026 Level: IV

Description: 315 60 x 64 Acordis U/M: YD

Low Warp tension
8 harness and 6 banks of drop wires. 71% air space reed
Dupont t-6.6 nylon
Plain PICK AND PICK WITH 2 FILLING YARNS
WEAVE 3 LOTS

Status: ACT
Department no: 10
Product code: 89 Airbag - driver uncoated
Loom type: Dornier general
Primary customer:
Requested by: L. BEASLEY

Reed width: 81.23
Dents/inch: 26.000
Ends/dent: 2
Sley count: 52.000
No. ends: 4.224

BP-44C-4% SOLIDS IN SIZE BOX. 1% STRETCH ON SLASHING
1 end 420/68 dk. blue nylon 24 ends from left side at slashbar

Yarn code: RMNL1538 Supplier: ACORDIS INDUSTRIAL FIBERS
Description: 315/144 T-447 HRT-8 Acordis Scottaboro Nylon
Warp: Airbag Beams
Weave: None

Yarn code: RMNL1539 Supplier: ACORDIS INDUSTRIAL FIBERS
Description: 315/144 T-447 HRT-8 Acordis Scottaboro Nylon
Warp: Airbag Tubes
Weave: None

ackaging: See final inspection instructions
rading: See final inspection instructions
urpose: nylon coating fabric (Air bag)
ube size: See final inspection instructions

Hold code: 02
Putup code: 11 Roll Goods
Tare wt:
CFM code:

| td wt (yds/lb): | Weight (lbs/yd): | Flow dev %: | Est. Off Loom | | | Est. Finished | | |
|-----------------|------------------|-------------|---------------|----------------|--------------|---------------|---------|---------|
| | | | Width (in): | Count (W x F): | Wt (oz/syd): | Min | Max | Target |
| 1.59 | 0.628 | 3.00 | 75.50 | 54 x 63 | 4.71 | 69.50 | 70.50 | 70.00 |
| | | | | | | 58 x 62 | 62 x 66 | 60 x 64 |
| | | | | | | 4.93 | 4.93 | 4.93 |

Comments: As c/r #10-407 as W4934-02

Current rev: 000

FILLING YARN #2

Revision date: 08/10/1999

By: TK

RMNL 0051 210/72 T-447 HRT TUBES FROM ACORDIS, 100% AKZO

ORIGINAL

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215 (12/97)

(Q12-102,102)

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WARPING ORDER

F-1017 11/98

(RE: QMS - 102)

SAFETY COMPONENTS FABRIC TECHNOLOGIES, INC. - DUNEAN PLANT - 80

WARPING, PROCESSING, WEAVING ORDER AND HEADEND TICKET

STYLE: W-4934 EXP.-3 TYPE CLOTH: NYLON COATING AIR BAGS DATE: _____

NO. REED DENT ENDS TOTAL
BEAMS: 1 SPREAD: 81.23" REED: 26.00 DENT: 2 DENTS: 2156* SLEY: 52.00 SHAFTS: 8

DRAW: STRAIGHT WEAVE: PLAIN EST % TYPE DIST. BTWN
CONT: 8% LOOM: DORNIER BM. HEAD: 81.75"
DEPT.: 10 BODY SELV TOTAL
ENDS: 4224 ENDS: 1 ENDS: 4225
SELVAGE: ** 1 END 420/68 DEN. DARK BLUE NYLON - HEAT SLIT AT LOOM WEIGHT
PER YARD: .0001

FILLING A: 315/144/T-447 AKZO SCOTSBORO NYLON PICKS: 32 WT/YD: .1959
(14,150)

FILLING B: 210/72/R-20 ACORDIS 100% T-447 HRT FROM AKZO PICKS: 32 WT/YD: .1305
*INCLUDES 22 DENTS EACH SIDE FOR CATCH CORD,LENO,ETC. (21,250)

FILLING C: _____ PICKS: _____ WT/YD: _____

WARP A: 315/144/T-447 AKZO SCOTSBORO NYLON NO. ENDS: 4224 WT/YD: .3245
NO TINT - NO CUT MARKS (14,150)

WARP B: ** ADDED AT SLASHER 24 ENDS FROM LEFT NO. ENDS: _____ WT/YD: _____
EDGE AT SLASHER

WARP C: _____ NO. ENDS: _____ WT/YD: _____

WARPING LAYOUT

MAY ALSO BE WARPED AS BELOW

AIR BAG

12 - BMS @ 0 352 0
SELV. BODY A SELV.

_____ - BMS @ _____
SELV. BODY SELV.

_____ - BMS @ _____
SELV. BODY A SELV.

_____ - BMS @ _____
SELV. BODY SELV.

_____ - BMS @ _____
SELV. BODY SELV.

_____ - BMS @ _____
SELV. BODY SELV.

FOR HEADEND TICKET:

GREIGE EST. ACT.% GROUND OVERALL
WIDTH _____ WEIGHT _____ CONT _____ COUNT _____ COUNT: _____

ISSUED BY: FRANCISCO BEDOYA Francisco DATE: _____

cc: BEASLEY, BURTON, REESE, HALEY, HAVER, B. JAMES, D. ROBBINS, WEAVE ROOM, J. GLENN
D-10 R. DEATHERAGE (3), FRANCISCO BEDOYA (3) D-10

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CERTIFICATE OF CONFORMANCE

PAGE 1 OF 2

MANUFACTURER: Safety Components Fabric Tech. Inc.
Duncan Plant
Greenville, SC

TEST CONDITIONS: 72°F / 65% R.H.

CUSTOMER ID:

INFORMATION ONLY

MATERIAL: W4934-03-9026

LOT: 21138

TEST DATE:

SPECIFICATION: TBD

| Piece No. Sample No. | 17530 | 17540 | | Specification Requirement | UNIT OF MEASURE | TEST PROCEDURES |
|--------------------------|-------|-------|-------|------------------------------|--------------------|--------------------|
| GRAB TENSILE WARP | 450 | 442 | 0 | Min: | Pounds | ASTM-D-5034 |
| FILLING | 379 | 389 | 0 | Min: | Pounds | ASTM-D-5034 |
| ELONGATION WARP | 38 | 38 | 0 | Min: Max: | Percent | ASTM-D-5034 |
| FILLING | 39* | 40* | 0 | Min: Max: | Percent | ASTM-D-5034 |
| TONGUE TEAR WARP | 28 | 27 | 0 | Min: | Pounds | ASTM-D-2261 |
| FILLING | 27 | 27 | 0 | Min: | Pounds | ASTM-D-2261 |
| TRAPEZOID TEAR WARP | 0 | 0 | 0 | Min: | Pounds | ASTM-D-4533 |
| FILLING | 0 | 0 | 0 | Min: | Pounds | ASTM-D-4533 |
| SHRINKAGE WARP | 1.56 | 1.56 | 0.00 | Max: | Percent | 1 HR @ 300 F |
| FILLING | .31 | .31 | 0.00 | Max: | Percent | 1 HR @ 300 F |
| FLAMMABILITY | 0.0 | 0.0 | 0.0 | Max: | IN/MIN | FMVSS-302 |
| BOW | .31 | .50 | | Max: | Percent | |
| BIAS | .75 | .75 | | Max: | Percent | |
| WEIGHT | 5.02 | 4.99 | 0.00 | Min: Max: | OZ/YD2 | ASTM-D-3776 |
| WIDTH | 70.5 | 71.0 | 0.0 | Min: Max: | INCHES | ASTM-D-3774 |
| ENDS | 58.3 | 58.3 | 0.0 | Min: Max: | EPI | ASTM-D-3775 |
| PICKS | 62.6 | 62.5 | 0.0 | Min: Max: | PPI | ASTM-D-3775 |
| BODY THICKNESS | .010 | .010 | 0.000 | Min: Max: | Inches | ASTM-D-1777 |
| DYNAMIC AIR PERM ADAP | | | | Min: Max: | mm/sec | T.B.D. |
| EXPONENT | | | | Min: Max: | | T.B.D. |

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Page 2 of 2

Material: W4934-03-9026

lot: 21138

| Piece No. Sample No. | 17530 | 17540 | | Specification Requirement | UNIT OF MEASURE | TEST PROCEDURES |
|--|-------|-------|-------|------------------------------|--------------------|--------------------|
| MULLEN BURST NET | | | | Min: | PSI | ASTM-D-3786 |
| pH | 7.1 | 6.8 | | Min: Max: | pH units | FTM 191 |
| EXTRACTABLES (%) | .5 | .6 | | Max: | Percent | JPS 701 |
| DYE STAIN | 5 | 5 | | Min: 4 | AATCC CROCK UNITS | JPS 701 |
| AIR PERMEABILITY | 2.04 | 2.00 | 0.00 | Min: Max: | CFM | ASTM-D-737 |
| CANTILEVER STIFFNESS WARP FILL | 0.0 | 0.0 | 0.0 | Min: Max: | MG/CM2 | ASTM-D-4032 |
| | 0.0 | 0.0 | 0.0 | Min: Max: | MG/CM2 | ASTM-D-4032 |
| CIRCULAR BEND WARP FILL | .800 | .800 | 0.000 | Min: Max: | Pounds | ASTM 4032 |
| | .800 | .800 | 0.000 | Min: Max: | Pounds | ASTM 4032 |

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT M. HOLCOMBE LAB DIRECTOR
(854) 240-2624

F-1065 (5/96)

[WI-2021]

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INFORMATION ONLY

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PROD. REQ. & COST FORM

TO: FRANCISCO BEDOYA

DATE

I. MARKETING

CUSTOMER: CUST. S/# C/R# 10-386

SCFTI S/#: 28355 WEAVE: Plain ENDUSE: Fishbag LEVEL 4

| | | | |
|------------------|------------------|----------------|-------------------------------------|
| GR. (MIN./NOM.) | FIN. (MIN./NOM.) | YES | NO |
| ENDS/IN: 41-43 | 44- | WARP SIZE OK | <input checked="" type="checkbox"/> |
| PICKS/IN: 48-50 | 49 | SPUN YARN TINT | |
| WIDTH: 69.5-70.5 | 65-66 | HI. TEN REQD | |

WARP: 420/68/R20 Nylon Dupont T743 (OLD/NEW)

FILL: 420/68/R20 Nylon Dupont T743 (1/2) (OLD/NEW)

SCFTI PROCESS: 315/96/R20 Nylon Dupont T729 (1/2)

| | | |
|--------------------|------------------|-----------------|
| GREIGE | CUT LENGTH RANGE | 500 |
| HEATSET IN THE GR. | MIN PC. LENGTH | 200 |
| SCOUR & HEATSET | SPLICES ALLOWED | yes |
| APPLY & FINISH | PACKAGING | 5 x Spiral Tube |

DESCRIBE FINISH: wrapped in clear plastic FINISH CODE: 9026

CFM RANGE: NA CUST. SPEC # TRD DATED:

COPY OF CUST. SPEC ATTACHED (TEST REQ. Y/N) (CERT REQ Y/N)

DEPT#: 10

II. TECHNICAL

TYPE LOOM: Dornier MULTIPLE PICKS - YES/NO EQUIVALENT PICKS: 1/2

YARDS PER BEAM: N/A (WARP IN PLANT & NEW YARNS ONLY)

CONST. IN LOOM: REED WIDTH: 74.60" SLEY: 400 OFF LM PICKS: 490

WARP: 420/68/R20 Nylon Dupont T-743

FILLING: 420/68/R20 Nylon Dupont T-743 pick and pick

WARP YDS/LB: 10.600 FILLING YDS/LB: 10.600 = 420 14.40 = 315

EST. WARP CONTRACTION: 8% REMARKS: sample first

SIGNATURE: Rouin DATE: 5-21-99

PROCESSES REQUIRED: (CIRCLE AS APPLICABLE)

| | | | | |
|-------------------|---------|---------------------|---------|-----------|
| PREPARATION | WEAVING | FINISHING | FINAL | TESTING |
| WINDING | DORNIER | BATCH | SLIT | INTERNAL |
| TWISTING (IN/OUT) | SULZER | SCOUR - JIG/CONT. | INSPECT | CUST. LOT |
| WARPING (IN/OUT) | | CAN DRY | PACK | NONSTD. |
| (BLOCK/TRANS.) | | CONTACT HT SET SHIP | | PPAP |
| BEAMING/SLASHING | | CALENDER/TENTER | | ANNUAL |
| | | | | QUAL. |

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III. ENGINEERING

LOOMS/WEAVER: _____ OTHER: _____

DATE FWDED: _____

IV. COST DEPARTMENT

YDS/LOOM _____ TARGET CONTRIBUTION _____ FAB. WT. _____ OZ./SQ. YD. _____
 120 HRS. _____ LOOM/WK _____ YD _____
 COST: _____ MIN. YD: _____ TAR. YD: _____
 VAR./YD: _____ FX/YD: _____ B/E/YD: _____

YARN PRICE: _____ WARP: _____ FILL: _____
 SPECIAL INSTRUCTIONS: _____

DISCLAIMERS/COMMENTS:

- A) Urethane adhesion values below 630d are very low. Trial evaluation by making surface rougher with two different densities should provide better surface adhesion.
- B) If successful would rework in warp and fill.

SUBMITTED BY J. Holmback

DATE: _____

APPROVED BY MARKETING MGR. Lon Big for S. Duerk

DATE: _____

APPROVED BY DIR. TECH. SVCS K. Bates

DATE: _____

REJ. APPR TECH. SERV. MGR. K. Bates

DATE: _____

APPROVED BY MFG. REF. COMM. K. Bates

DATE: _____

FORWARD TO: _____ OR _____ CC: J. ANDERSON
 J. UNDERWOOD

S. DUERK
 D. HARVELL

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CERTIFICATE OF CONFORMANCE

PAGE 1 OF 2

MANUFACTURER: Safety Components Fabric Tech. Inc.
Duncan Plant
Greenville, SC

TEST CONDITIONS: 72°F / 65% R.H.

CUSTOMER ID:

MATERIAL: W4951-01-9026

LOT: 20701

TEST DATE:

SPECIFICATION: TBD

| Piece No. Sample No. | 8619T | | | Specification Requirement | UNIT OF MEASURE | TEST PROCEDURES |
|--------------------------|-------|-------|-------|------------------------------|--------------------|--------------------|
| GRAB TENSILE WARP | 430 | 0 | 0 | Min: | Pounds | ASTM-D-5034 |
| FILLING | 424 | 0 | 0 | Min: | Pounds | ASTM-D-5034 |
| ELONGATION WARP | 34 | 0 | 0 | Min: Max: | Percent | ASTM-D-5034 |
| FILLING | 43 | 0 | 0 | Min: Max: | Percent | ASTM-D-5034 |
| TONGUE TEAR WARP | 47 | 0 | 0 | Min: | Pounds | ASTM-D-2261 |
| FILLING | 41 | 0 | 0 | Min: | Pounds | ASTM-D-2261 |
| TRAPEZOID TEAR WARP | 0 | 0 | 0 | Min: | Pounds | ASTM-D-4533 |
| FILLING | 0 | 0 | 0 | Min: | Pounds | ASTM-D-4533 |
| SHRINKAGE WARP | 1.25 | 0.00 | 0.00 | Max: | Percent | 1 HR @ 300 F |
| FILLING | 0.00 | 0.00 | 0.00 | Max: | Percent | 1 HR @ 300 F |
| FLAMMABILITY | 0.0 | 0.0 | 0.0 | Max: | IN/MIN | FMVSS-302 |
| BOW | .56 | | | Max: | Percent | |
| BIAS | .50 | | | Max: | Percent | |
| WEIGHT | 5.10 | 0.00 | 0.00 | Min: Max: | OZ/YD2 | ASTM-D-3776 |
| WIDTH | 66.0 | 0.0 | 0.0 | Min: Max: | INCHES | ASTM-D-3774 |
| ENDS | 44.5 | 0.0 | 0.0 | Min: Max: | EPI | ASTM-D-3775 |
| PICKS | 48.3 | 0.0 | 0.0 | Min: Max: | PPI | ASTM-D-3775 |
| BODY THICKNESS | .012 | 0.000 | 0.000 | Min: Max: | Inches | ASTM-D-1777 |
| DYNAMIC AIR PERM ADAP | | | | Min: Max: | MB/sec | T.B.D. |
| EXPONENT | | | | Min: Max: | | T.B.D. |

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Material: W4951-01-9026

lot: 20701

Page 2 of 2

| Piece No. Sample No. | 86197 | | | Specification Requirement | UNIT OF MEASURE | TEST PROCEDURES |
|-------------------------|-------|-------|-------|------------------------------|--------------------|--------------------|
| MULLEN BURST HT | | | | Min: | PSI | ASTM-D-3786 |
| pH | 7.0 | | | Min: Max: | pH units | FTM 191 |
| EXTRACTABLES (%) | .5 | | | Max: | Percent | JPS 701 |
| DYE STAIN | 5 | | | Min: 4 | AATCC CROCK UNITS | JPS 701 |
| AIR PERMEABILITY | 6.04 | 0.00 | 0.00 | Min: Max: | CFM | ASTM-D-737 |
| CANTILEVER STIFFNESS | | | | | | |
| WARP | 0.0 | 0.0 | 0.0 | Min: Max: | MG/CM2 | ASTM-D-4032 |
| FILL | 0.0 | 0.0 | 0.0 | Min: Max: | MG/CM2 | ASTM-D-4032 |
| CIRCULAR BEND | | | | | | |
| WARP | 0.000 | 0.000 | 0.000 | Min: Max: | Pounds | ASTM 4032 |
| FILL | 0.000 | 0.000 | 0.000 | Min: Max: | Pounds | ASTM 4032 |

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT M. HOLCOMBE LAB DIRECTOR
(864) 240-2624

F-1065 (5/96)

[WI-2021]

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